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Abstract

A device for finding the relative position of the reference axis (BA) of an object relative to the reference beam (Rp) of electromagnetic radiation, in particular a laser beam, has a static radiation transmitter (S) and, on the side of the object, a dividing mirror (22) and two position detectors (23, 25). Said dividing mirror creates a subbeam (Rp') derived from the reference beam. The reference beam passing through the dividing mirror in a straight line impacts on one of the position detectors, the subbeam impacting on the other one. The position detectors emit electrical signals on the basis of which the position of the reference axis can be determined by means of a computer. Known devices of this kind are very bulky. This is no longer the case in the device according to said invention because of its special beam guide configuration and the special additional optical means it uses. Measuring possibilities can be further improved by emitting a second reference beam (Rs).

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